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File ORD

ORD

FY81 RESEARCH PROGRAM

IN SUPPORT OF

OFFICE OF DATA PROCESSING

1 AUGUST 1980

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ORD RESEARCH PROGRAM DEFINITION

- REQUIREMENTS GENERATED BY ALL OFFICES
- RANKING OF REQUIREMENTS (CRITICALITY, \$ PAY OFF)
- R&D VALIDITY
- ORD SKILL BASE
- PERCEPTUAL PROGRAM FILTERS
- FUNDING AVAILABILITY

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ODP FY81 RESEARCH REQUIREMENTS

- SECURITY FILTERING TECHNOLOGY (DDA RANKED #1)
 - CONTROLLED NON-AGENCY COMMUNITY ACCESS TO AGENCY DATA BASES
- DATA ENCRYPTION TECHNIQUES (DDA RANKED #2)
 - OVERSEAS MAGNETIC MEDIA STORAGE (CRAFT/CLASS A FINANCIAL SYSTEM)
- TEXT SEARCH (DDA RANKED #4)
 - HSTS TECHNOLOGY (HARDWARE AND MICROCODE) TO ODP DATA BASES

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PROPOSED ORD FY81 PROGRAM

FY81

INFORMATION SYSTEMS

- ADVANCED TEXT SEARCH AND RETRIEVAL
- DATA PROTECTION TECHNIQUES FOR DATA
STORED ON MAGNETIC MEDIA
- COMPUTER NETWORK SECURITY

RELATED RESEARCH

- INFORMATION PROCESSING FOR ANALYSTS

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ADVANCED TEXT SEARCH AND RETRIEVAL - STUDY THE APPLICATION OF ADVANCED TEXT SEARCHING AND RETRIEVAL TECHNIQUES, INITIALLY DEVELOPED UNDER THE HIGH SPEED TEXT SEARCH PROGRAM, FOR APPLICATION TO ODP RETRIEVAL REQUIREMENTS. THE FY81 STUDY WILL INCLUDE AN EXAMINATION OF THE APPLICATION OF THE TECHNIQUES BY DIRECT INCORPORATION IN CPU'S (VIA MICROCODE) OR TO PERIPHERALS (VIA MODIFIED DISK CONTROLLERS), A DEFINITION OF FEASIBILITY, AND IDENTIFICATION OF A DESIGN APPROACH.

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DATA PROTECTION TECHNIQUES FOR DATA STORED ON MAGNETIC MEDIA - EXPLORE TECHNICAL MEANS FOR THE PROTECTION OF COMPUTER DATA STORED ON MAGNETIC MEDIA USED IN FIELD APPLICATIONS. THE OBJECTIVE IS TO AVOID THE COMPROMISE OF DATA WITHOUT THE NEED TO DESTROY DISKS AND TAPES. THE FY81 STUDY WILL EXAMINE ALGORITHMS FOR STORING AND RETRIEVING DATA IN PROTECTED FORM. THE ANALYSIS WILL ADDRESS IMPLEMENTATION, COST, AND OPERATIONAL CONSIDERATIONS.

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COMPUTER NETWORK SECURITY - EXPLORE METHODOLOGY TO PROVIDE A PROVABLY SECURE
MECHANISM TO ALLOW ACCESS TO AGENCY SYSTEMS BY OTHER INTEL-
LIGENCE COMMUNITY MEMBERS THAT OBSERVES COMPARTMENTATION
REQUIREMENTS. THE FY81 STUDY WILL ESTABLISH THE FORMAL
SPECIFICATION OF REQUIREMENTS AND WILL DETERMINE THE
SOLVABILITY OF THE FORMULATED PROBLEM.

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INFORMATION PROCESSING FOR ANALYSTS - CONTINUE THE EXPLORATION OF COMPUTER SYSTEMS ARCHITECTURES WHICH WILL PROVIDE AN INFORMATION PROCESSING ENVIRONMENT DIRECTED TOWARDS THE MANIPULATION OF ANALYST'S COGNITIVE MODELS RATHER THAN THE MANIPULATION OF ANALYST'S DATA. THIS PHASE OF THE ACTIVITY INVOLVES THE SELECTION OF AN APPLICATION AREA AND THE DEVELOPMENT OF A DEMONSTRATION, TESTED FOR THE ARCHITECTURAL CONCEPTS.

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OTHER ODP FY81 RESEARCH REQUIREMENTS

- BANDWIDTH COMPRESSION TECHNIQUES (DDA RANKED #5)
 - MORE EFFECTIVE UTILITY OF BANDWIDTH CONSTRAINED COMMUNICATIONS OVERSEAS

- FIBER OPTICS FOR WIDEBAND INTRA-AGENCY COMMUNICATIONS (DDA RANKED #5)
 - TRANSMISSION OF VOLUMINOUS TEXT AND IMAGERY TO ANALYST STATIONS
 - (I.E., ADSTAR AND IDEX)

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